

**ABSTRACT**

An antenna device for a portable device has an antenna loop (11) of conducting material to be connected to radio circuitry in the portable device. The antenna loop 5 (11) is positioned opposite a ground plane of a PCB (16). Also, the antenna device also comprises at least one battery, which is positioned in the extension of a first side of the PCB (16), and acts as an extension of the ground plane of the PCB (16).

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To be published together with Fig. 2